

ABSTRACT OF THE DISCLOSURE

An auto-reset leakage current circuit breaker performs an over current cut-off function, leakage current cut-off function, and reset function. The circuit breaker has a zero sequence current transformer detecting abnormal current flows, an abnormal current detector comparing a value of the abnormal current flows, with a standard set-point value, a cut-off/reset controller operating a relay to cut off the electric path in the case of an abnormal current flow or resetting the relay in the case of elimination of the causes of the abnormal current flow. A test current generator applies test currents to check leakage states after the relay cuts off the electric path, and an auto-reset unit supplying a pulse periodically to check a current transformer signal after the cut-off/reset controller is operated to cut off the abnormal current flows.